

PROJECT: 23-1030 PLAN, WALLA WALLA RIVER B2B PHASE 4 DESIGN

Sponsor: Tri-State Steelheaders Inc Program: Salmon State Projects Status: Application Submitted

Parties to the Agreement

PRIMARY SPONSOR

Tri-State Steelheaders Inc

Address PO Box 1375**City** Walla Walla **State** WA **Zip** 99362**Org Type** Non-Gov-Reg Fisheries Enhance Group**Vendor #** SWV0015388-00**UBI** 601169392**Date Org created****Org Notes**[link to Organization profile](#)☐ Org data updated

SECONDARY SPONSORS

No records to display

MANAGING AGENCY

Recreation and Conservation Office

LEAD ENTITY

Snake River Salmon Rec Bd LE

QUESTIONS

#1: List project partners and their role and contribution to the project.

External Systems

SPONSOR ASSIGNED INFO

Sponsor-Assigned Project Number

Sponsor-Assigned Regions

EXTERNAL SYSTEM REFERENCE

Source	Project Number	Submitter
HWS	23-1030	AFitzgerald

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Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
<u>Alice Rubin</u> Rec. and Conserv. Office	Project Manager	(360) 867-8584	alice.rubin@rco.wa.gov
<u>Morgan Morris</u> Tri-State Steelheaders Inc	Project Contact	(509) 529-3543	morgan@tristatesteelheaders.com
<u>Brian Burns</u> Tri-State Steelheaders Inc	Alt Project Contact	(509) 529-3543	brian.burns@tristatesteelheaders.com
<u>Ali Fitzgerald</u> Snake River Salmon Rec Bd LE	Lead Entity Contact	(509) 382-4115	ali@snakeriverboard.org

Worksites & Properties

Worksite Name

#1 Walla Walla B2B Phase 4 Design

Planning	Property Name
✓	Mike Buckley

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Worksite Map & Description

Worksite #1: Walla Walla B2B Phase 4 Design

WORKSITE ADDRESS

Street Address Lowden Gardena Rd
City, State, Zip Walla Walla WA 99362

Worksite Details

Worksite #1: Walla Walla B2B Phase 4 Design

SITE ACCESS DIRECTIONS

From Lowden, head west on Highway 12. Turn south onto Lowden-Gardena Rd. The project site is accessed from the first bridge you come to.

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Chinook-Middle Columbia River Spring, Not Warranted	✓	✓	✓	
Steelhead-Middle Columbia River, Walla Walla River, Threatened	✓	✓	✓	

Reference or source used

WDFW and CTUIR habitat reports on lower Walla Walla River

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Bull Trout	
Lamprey	
Rainbow	

Questions

#1: Give street address or road name and mile post for this worksite if available.

Lowden Gardena Rd, mile marker 1

Project Location

RELATED PROJECTS

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Projects in PRISM

PRISM Number	Project Name	Program Name	Current Status	Relationship Type	Notes
17-1267 R	Bridge to Bridge Restoration Phase 2-	Salmon State Projects	Closed Completed	Earlier Phase	
14-1902 P	Bridge to Bridge Final Restoration Design	Salmon Federal Projects	Closed Completed	Earlier Phase	
11-1588 R	Bridge to Bridge - Levee Removal	Salmon Federal Projects	Closed Completed	Earlier Phase	
10-1819 P	Bridge to Bridge Levee Final Design	Salmon Federal Projects	Closed Completed	Earlier Phase	
08-2028 P	Walla Walla River Bridge to Bridge Rest Design	Salmon Federal Projects	Closed Completed	Earlier Phase	
19-1497 P	Walla Walla B2B Phase 3 Design	Salmon State Projects	Active	Earlier Phase	Schedule to be completed in March of 2023.

Related Project Notes

Questions

#1: Project location. Describe the geographic location, water bodies, and the location of the project in the watershed, i.e. nearshore, tributary, main-stem, off-channel, etc.

The proposed project is on the lower Walla Walla River main stem between McDonald Rd and Lowden Road. The project is about 25 miles upstream from the confluence with the Columbia River. This project will address about 2,000 ft of the channel

#2: How does this project fit within your regional recovery plan and/or local lead entity's strategy to restore or protect salmonid habitat? Cite section and page number.

This section of the Walla Walla River is identified by the Snake River Recovery Board as a priority restoration reach and major spawning area. CTUIR lower Walla Walla River Geomorphic Assessment and Actions Plan (2014) identifies the reach as priority for restoration. The 2008 Fish Accords (Three Treaty Tribes-Action Agencies 2008), the Lower Walla Walla River was identified as a top priority in the CTUIR Independent Science Review Panel proposal (2013).

#3: Is this project part of a larger overall project?

Yes

#3a: How does this project fit into the sequencing of the larger project?

This project is the 4th and final design project in the Bridge to Bridge project. Phases 1 and 2 have been completed. Phase 3A is being proposed for funding in this grant round. Phase 3B will be proposed for funding next year. This design phase is proposed now in order to minimize the time between implementation of 3B and 4.

#4: Is the project on State Owned Aquatic Lands? Please contact the Washington State Department of Natural Resources to make a determination. [Aquatic Districts and Managers](#)

No

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Property Details

Property: Mike Buckley (Worksite #1: Walla Walla B2B Phase 4 Design)

✓ Planning

LANDOWNER

Name Mike Buckley
Address 11537 W. Hwy 12
City Walla Walla
State WA Zip 99362
Type Private

CONTROL & TENURE

Instrument Type Landowner Agreement
Timing Proposed
Term Length Fixed # of years
Yrs 10
Expiration Date
Note

Project Proposal

Project Description

The Bridge to Bridge Restoration Design completed in 2010 (RCO project #08-2028) developed preliminary plans for nearly two miles of the Walla Walla River near Lowden, WA. Final designs were completed for the upper third of the 2 mile design reach, and implementation of those plans was completed in 2013 (Phase 1). Final designs were completed for the remaining part of the design reach (developed through RCO project #14-1902). Significant changes within the project reach from high spring flows have resulted in-stream conditions which require significant re-design before restoration. The design will complete the 4th and final phase of the project. This section of the Walla Walla River is identified by The Snake River Salmon Recovery Plan as a priority restoration reach in the Walla Walla mainstem major spawning area. Adult and juvenile summer steelhead and spring Chinook use the project reach during their migrations and Bull Trout occur there seasonally. Other species of cultural value and state concern that utilize the project reach are Margined Sculpin, Leopard Dace, and River Lamprey.

Project Questions

#1: Problem statement. What are the problems your project seeks to address? Include the source and scale of each problem. Describe the site, reach, and watershed conditions. Describe how those conditions impact salmon populations. Include current and historic factors important to understand the problems.

The lower Walla Walla River, between McDonald Rd bridge and Lowden Rd Bridge, lacks aquatic, riparian, and upland habitat. Due to limited instream and off-channel habitat for anadromous fish, there has been documented increased mortality among out-migrating smolts in the lower Walla Walla River, with as many as 70 percent failing to reach McNary Dam, as stated in the Geomorphic Assessment and Action Plan by CTUIR in 2014. The current conditions and sources of mortality in the lower Walla Walla River may hinder important salmonid overwinter rearing and overall recovery of fish species, as noted by CTUIR in 2014. The USFWS multi-year synthesis for the Walla Walla River (Schaller et al. 2014) suggests that because the lower river has degraded habitat conditions and bull trout migrate downstream out of the headwater area, small classes of migratory bull trout may be the most susceptible to mortality.

#2: Describe the limiting factors, and/or ecological concerns, and limiting life stages (by fish species) that your project expects to address.

According to the Lower Walla Walla River Geomorphic Assessment and Action Plan by the CTUIR 2014, the lower Walla Walla River in the project reach is a low-gradient, primarily single-channel, straightened, and restricted from its historic flood plain. It also lacks riparian areas and complexity. The project reach is affected by specific physical and physiological limiting factors such as water quantity, quality, and temperature, as well as biological factors such as predation. These conditions particularly impact out-migrating juveniles for target species mid-Columbia Steelhead, limiting overwinter rearing habitat.

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#3: What are the project goals? The goal of the project should be to solve identified problems by addressing the root causes. Then clearly state the desired future condition. Include which species and life stages will benefit from the outcome, and the time of year the benefits will be realized. [Example Goals and Objectives](#)

The overarching objective of this project is to improve and diversify the aquatic, riparian, and upland habitat while increasing flood plain connectivity and minimizing excessive terrace erosion within project reach. This will ultimately enhance the quantity, quality, and diversity of habitat for target species, especially for out-migrating juveniles and winter rearing.

#4: What are the project objectives? Objectives support and refine biological goals, breaking them down into smaller steps. Objectives are specific, quantifiable actions the project will complete to achieve the stated goal. Each objective should be SMART (Specific, Measurable, Achievable, Relevant, and Time-bound). [Example Goals and Objectives](#)

Objective 1: Add large wood structures including bank rootwads and flow deflection jams and apex jams, providing increased spawning gravel bars, pool and cover for juveniles, and stream braiding.
Objective 2: Plant riparian species including willow, water birch, black cottonwood, and redosier dogwood. Plant grass species like basin wildrye, bluegrass, and snake river wheatgrass.
Objective 3: Minimize bank erosion along upper terraces with riparian plantings on targeted unstable banks.
Objective 4: Increase floodplain connectivity with excavation and enhancement with LWD of side channels to improve off channel winter rearing habitat.

#5: Scope of work and deliverables. Provide a detailed description of each project task/element. With each task/element, identify who will be responsible for each, what the deliverables will be, and the schedule for completion.

This project will deliver final design of phase 4 of the bridge-to-bridge project. The Tri-State Steelheaders will be responsible for completion of design project. Including
Contracting engineering firm in beginning of 2024
Design review with stakeholder engagement through 2024
Cultural Resource Survey in summer 2025
Final design and basis for design report ready for construction January 2025.

#6: What are the assumptions and physical constraints that could impact whether you achieve your objectives? Assumptions and constraints are external conditions that are not under the direct control of the project, but directly impact the outcome of the project. These may include ecological and geomorphic factors, land use constraints, public acceptance of the project, delays, or other factors. How will you address these issues if they arise?

The section of the Walla Walla River has been included in previous phases design and construction projects. We will build on the experience learned in those projects to complete this design project. There is a bridge in the down stream end of the project reach that will need to be considered in design. Landowner has informed us of a irrigation pipe under the channel that could impact design.

#7: How have lessons learned from completed projects or monitoring studies informed this project?

This will be 4th Bridge to Bridge final design, all utilizing the engineering team at GeoEngineers. Each of the construction project includes as-built report. This project will implement the same design goals and objectives that has been used in previous phases.

#8: Describe the alternatives considered and why the preferred was chosen.

The alternative analysis was created in bridge to bridge restoration design #08-2028. The process involved the identification of the project's goals and objectives. Several enhancement alternatives were developed to a conceptual level using similar assumptions and cost estimates to facilitate a reasonable side by side comparison. The alternative with the highest benefit-to-cost ratio as defined by the overriding project goals and input from stakeholders. The alternative which included the protection of terrace banks, creating off-channel habitat, realigning portions of the channel, and excavating off-channel habitat was chosen for its preferred cost-to-benefit rating.

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#9: How were stakeholders consulted in the development of this project? Identify the stakeholders, their concerns or feedback, and how those concerns were addressed.

CTUIR and WDFW have been consulted with during the development of this phase and previous phases. The current stakeholders are WWCCD, CTUIR, and WDFW will be engaged for design review and input.

#10: Does your project address or accommodate the anticipated effects of climate change?
Yes

#10a: How will your project be climate resilient given future conditions?

Climate change is increasing the likelihood of warmer air temperatures and more precipitation in the winter and reduced precipitation in the summer. This project provides stream complexity allowing for greater survivability in an increased range of conditions include flow and temperature.

#10b: How will your project increase habitat and species adaptability?

Upon implementation, by the installation of large woody debris in the project reach, in addition to riparian tree plantings, we hope increased shading and habitat will maintain cooler water temperatures for the benefit of cold-water fish species.

#11: Describe the sponsor's experience managing this type of project. Describe other projects where the sponsor has successfully used a similar approach.

The sponsor began working on Walla Walla River Bridge to Bridge with the 08-2028 initial design. The sponsor has completed 2 previous projects in the reach.

#12: Will veterans (including the veterans conservation corps) be involved in the project? If yes, please describe.
No

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Planning Supplemental

#1: Is the project an assessment / inventory?

No

#2: Is your project a Barrier / Screening Diversion Inventory Project?

No

#3: Is this a fish passage design / screening design project?

No

#4: Will the project develop a design?

Yes

#4a: Will a licensed professional engineer design of the project?

Yes

#4b: Will you apply for permits as part of the project scope?

no

Planning Metrics

Worksite: Walla Walla B2B Phase 4 Design (#1)

Area Encompassed (acres) (B.0.b.1) 30.

Miles of Stream and/or Shoreline Affected (B.0.b.2) 0.

DESIGN FOR SALMON RESTORATION

Final design and permitting (B.1.b.11.a RCO)

Total cost for Final design and permitting \$64,000

Project Identified in a Plan or Watershed Assessment. (1221) (B.1.b.11.a) Bridge to Bridge project is identified as priority in the Walla Walla 2050 plan. Snake River Salmon Recovery Board (2020 Version). Snake River Salmon Recovery Region Provisional Work Plan. Day 100

Priority in Recovery Plan (1223) (B.1.b.11.b) National Marine Fisheries Service, 2000 Middle Columbia River Steelhead Distinct Population Segment ESA Recovery Plan. Portland, OR

CULTURAL RESOURCES

Cultural resources

Total cost for Cultural resources \$20,000

Acres surveyed for cultural resources 30.

Overall Project Metrics

COMPLETION DATE

Projected date of completion 08/31/20

Planning Cost Estimates

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Worksite #1: Walla Walla B2B Phase 4 Design

Category	Work Type	Estimated Cost	Note
Cultural Resources	Cultural resources	\$20,000	
Design for Salmon restoration	Final design and permitting (B.1.b.11.a RCO)	\$64,000	
	Subtotal:	\$84,000	
	Total Estimate For Worksite:	\$84,000	

Summary

Total Estimated Costs:	\$84,000
Total Estimated Planning Costs:	\$84,000

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Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
<u>Planning Costs</u>			
Planning	\$84,000		
SUBTOTAL	\$84,000	100.00 %	
Total Cost Estimate	\$84,000	100.00 %	

Funding Request and Match

FUNDING PROGRAM

Salmon State Projects	\$84,000	100.000000
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SPONSOR MATCH

Questions

#1: Explain how you determined the cost estimates

Cost are based on sponsor experience and project previous phases.

Cultural Resources

Cultural Resource Areas

Worksite #1: Walla Walla B2B Phase 4 Design

Area: Walla Walla B2B Phase 4 APE

#1: Describe any planned ground disturbing pre-construction/restoration work. This includes geo-technical investigation, fencing, demolition, decommissioning roads, etc.

This project does not include any ground disturbing work

#2: Describe the existing project area conditions. The description should include existing conditions, current and historic land uses and previous excavation/fill (if depths and extent is known, please describe).

The project area consist of in-channel and forested riparian area, there is no known historic land use or buildings in project area.

#3: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?
No

#4: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.
No

#5: Do you have knowledge of any previous cultural resource review within the project boundaries during the past 10 years?
No

#6: Are there any structures over 45 years of age within this worksite? This includes structures such as buildings, tidegates, dikes, residential structures, bridges, rail grades, park infrastructure, etc.
No

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Project Permits

Permits and Reviews
None - No permits Required

Issuing Organization	Applied Date	Received Date	Expiration Date	Permit #
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Attachments

Required Attachments

6 out of 6 done

Applicant Resolution/Authorizations	✓
Cost Estimate	✓
Landowner acknowledgement form	✓
Map: Planning Area	✓
Photo	✓
RCO Fiscal Data Collection Sheet	✓

PHOTOS (JPG, GIF)

Photos (JPG, GIF)



550470



552458

PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Sh:
	04/14/2023	Cost Estimate	SRFB_Cost_Estimate B2B Planning.xlsx.XLSX	MorganM	SRFB_Cost_Estimate B2B Planning.xlsx.xlsx, 558158	✓
	03/03/2023	Landowner acknowledgement form	RCO-LandownerAck-B2BPhase4Design.pdf	MorganM	RCO-LandownerAck-B2BPhase4Design.pdf, 553800	
	03/03/2023	Applicant Resolution/Authorizations	B2BPhase4_ApplicantAuthorizationResoluti	MorganM	B2BPhase4_ApplicantAuthorizationRes... 553799	✓
	02/23/2023	RCO Fiscal Data Collection Sheet	FiscalDataCollectionSheet.pdf	MorganM	FiscalDataCollectionSheet.pdf, 552583	
	02/22/2023	Photo	Phase4_5212022.jpg	MorganM	Phase4_5212022.jpg, 552458	✓
	02/02/2023	Map: Planning Area	Bridge to Bridge Phased Map.pdf	MorganM	Bridge to Bridge Phased Map.pdf, 550471	✓
	02/02/2023	Map: Planning Area	B2B_VicinityMap.JPG (1).JPG	MorganM	B2B_VicinityMap.JPG (1).jpg, 550470	✓

Application Status

Application Due Date: 06/27/2023

Status Name	Status Date	Submitted By	Submission Notes
Application Submitted	04/14/2023	Morgan Morris	
Preapplication	01/09/2023		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them. (Morgan Morris, 04/14/2023)

Date of last change: 04/14/2023